

Swiss Proteomics Society 2008 Interactive Training Initiative



Applied Proteomics – Tips & Tricks

On-site applied training course with international debriefing workshop

Training Course Proposal Form

Proposed Title: Tandem Mass Tags and OFFGEL electrophoresis: two key technologies for MS/MS-based quantitative proteomics
Brief Description (100 words max.): The course will focus on two top-of-the-line techniques that in association guaranty valuable analysis and quantitation of proteins in complex biological samples by mass spectrometry (MS). Different protein extracts will be reduced, alkylated and digested before isobaric Tandem Mass Tag (TMT) labeling. Once pooled, the differently-labeled peptides will be fractionated according to their pI by OFFGEL electrophoresis (OGE) and the resulting fractions will be analyzed by liquid chromatography (LC) and matrix-assisted laser desorption tandem time-of-flight (MALDI TOF/TOF) MS. Through the losses of the TMT reporter ions during tandem MS, relative quantification between the different extracts will be achieved.
Location (Institute name and town): University of Geneva, Geneva, Switzerland
Maximum number of participants (2-10): 6
Duration (1-5 days): 3 (0.5 day for introduction and sample preparation; 1 day for TMT labeling and OGE; 1 day for LC and MALDI TOF/TOF; 0.5 day for data interpretation)
When: from Monday 6 th October (2 pm) to Thursday 9 th October (12 am)
Organizing laboratory: Biomedical Proteomics Research Group
Contact persons: Jean-Charles Sanchez Loïc Dayon Alexandre Hainard
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